

# **MSI MEGA BOOK**

***S260 Notebook PC***

**User's Guide**

**G52-B1012X1**

# Regulations Information

## FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

## Note

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shield interface cables and AC power cord, if any must be used in order to comply with the emission limits.

## **FCC Conditions**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.



# Safety Guideline for Using Lithium Battery

(Danish) ADVARSEL! Lithiumbatteri --- Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af same fabrikat og type. Levé det brugte batteri tilbage til leverandøren.

(Deutsch) VORSICHT: Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleich-wertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

(English) CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

(Finnish) VAROITUS: Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

(French) ATTENTION: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

(Norwegian) ADVARSEL: Eksplosjonsfare ved feilaktig skifte av batteri. Benytt same batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

(Swedish) WARNING: Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruction.

## Caution on Using Modem

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.
5. Avoid using the telephone function (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
6. Do not use the telephone function to report a gas leak in the vicinity of the leak.

## CD-ROM Drive Notice

CAUTION: This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT." To use this model properly, read the instruction manual carefully and keep this manual for your future reference. In case of any trouble with this model, please contact your nearest "AUTHORIZED service station." To prevent direct exposure to the laser beam, do not try to open the enclosure.

## Safety Instructions

1. Read the safety instructions carefully and thoroughly.
2. Save this User Guide for possible use later.
3. Keep this equipment away from humidity and high temperature.
4. Lay this equipment on a stable surface before setting it up.
5. The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.
6. Make sure that the power voltage is within its safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power inlet.
7. Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
8. Always unplug the power cord before inserting any add-on card or module.
9. All cautions and warnings on the equipment should be noted.
10. Never pour any liquid into the opening that could damage the equipment or cause an electrical shock.



11. If any of the following situations arises, get the equipment checked by a service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the equipment.
  - The equipment has been exposed to moisture.
  - The equipment has not work well or you can not get it work according to User Guide.
  - The equipment was dropped and damaged.
  - The equipment has obvious signs of breakage.
12. Do not leave the equipment in an unconditioned environment with a storage temperature of 60OC (140OF) or above, which may damage the equipment.
13. To prevent explosion caused by improper battery replacement, use the same or equivalent type of battery recommended by the manufacturer only.

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Please note that the setting diagrams or values in this guide are FOR YOUR REFERENCE ONLY. The model you bought may be slightly different from the illustrations and descriptions in this guide. If you are not sure about these information, such as the computer specification and equipment, please ask your local vendor for help.

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## Technical Support

- Visit the MSI website for FAQ, technical guide, driver and software updates, and other information: <http://www.msi.com.tw/>.
- Contact our technical staff at: ***support@msi.com.tw***.



廢電池請回收

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

## Release History

Version	Revision Note	Date
1.0	First Release	January 2004

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# Notebook

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***Product View***



## UNPACKING

First, unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future.

The package should contain the following items:

- ◆ One Notebook PC 1012
- ◆ One Recovery CD.
- ◆ One Software CD containing the drivers and utilities.
- ◆ One User's Manual and one Quick Guide.
- ◆ One Warranty Card.
- ◆ Accessories:
  - ◆ High-capacity Li-ion battery pack.
  - ◆ AC adapter and power cord.
  - ◆ Phone cable/Phone jack (optional).
  - ◆ Notebook PC carry bag (optional).



## SPECIFICATION

- **Physical Characteristic**

<b>Dimension</b>	303mm(L) x 225mm(D) x 26-28mm(H)
<b>Weight</b>	1.8 kg

- **CPU**

<b>Processor Type</b>	uFCPGA (478 pins)
<b>Support Processor</b>	Intel Pentium M Dothan FSB-533 1.6GHz to 2.13GHz; FSB-400 1.6GHz
<b>L2 Cache</b>	2MB
<b>FSB Speed</b>	533MHz/400MHz
<b>Smart Power Management</b>	Support Enhance Speed Step III

- **Core Chips**

<b>North Bridge</b>	Intel® 915GM
<b>South Bridge</b>	Intel® ICH6-M

- **Memory**

<b>Technology</b>	DDR 333
<b>Memory</b>	DDR SO-DIMM X 2 slots 128/256/512/1024MB DDR SDRAM
<b>Maximum</b>	2GB (1024MB DDR SO-DIMM X 2)

- **Power**

<b>AC Adapter</b>	65W, 19 Volt
<b>Battery Type I</b>	8 cells (Li-Ion)(4400mAh) 4 cells (Li-Ion)(2200mAh)
<b>Battery Type I Life</b>	Battery mark 2.5Hr/5Hr (4/8)
<b>Battery Type I Life In</b>	4 days (S3, battery); 40days (S4,S5)

### **Stand by Mode**

<b>RTC Battery</b>	5 Years (non-rechargeable)
--------------------	----------------------------

<b>Power Management</b>	Support ACPI 1.0b & 2.0 SMBIOS 2.3X
-------------------------	--

- **Storage**

<b>HDD form factor</b>	9.5mm(H), 30/40/60GB
------------------------	----------------------

<b>IDE Controller</b>	Ultra DMA ATA-100
-----------------------	-------------------

<b>Optical Device</b>	DVD-ROM/COMBO/ DVD dual
-----------------------	----------------------------

- **I/O Port**

<b>Monitor(VGA)</b>	15 pin Mini D-Sub x 1
---------------------	-----------------------

<b>USB</b>	x 3 (USB version 2.0), always supply Power (S0~S5)
------------	---

<b>SPDIF Out</b>	x 1
------------------	-----

<b>Headphone Out</b>	x 1
----------------------	-----

<b>IEEE1394</b>	x 1
-----------------	-----

<b>Mic-in</b>	x 1
---------------	-----

<b>Lin-in</b>	x 1
---------------	-----

<b>RJ11</b>	x 1
-------------	-----

<b>RJ45</b>	x 1
-------------	-----

- **Communication Port**

<b>56K Fax/MODEM</b>	I/F --- AC97 S/W Modem
----------------------	------------------------

<b>MDC (AC'97)</b>	Controller --- AC 97 Embedded Wake on Ring --- Support on S3 PTT Approval --- Yes (FCC/CTR21/JATE)
--------------------	--

**LAN**

PHY --- Realtek 8101

Wake on LAN --- Support on S3/S4/S5  
state

LAN Boot --- Yes

Wfm 2.0 support

**Wireless LAN**

IEEE 802.11b/g

- **PCMCIA**

**Controller**

RICOH R5C593

MMC/SD/MS 3 in one card reader x1

**Slot**

Type II x 1

**CardBus**

Support

- **Display**

**LCD Type**

12.1" WXGA

**Brightness**

Brightness controlled by K/B hot-keys

- **Video**

**Controller**

Embedded in Intel 915GM

**VRAM**

Shared System Memory

**LCD**

1280 x 800 WXGA

**CRT Support**

800x600, max, 32bit color

1024x768, max, 32bit color

1280x800, max, 32bit color

**Display Detect**

System auto detect LCD or CRT:

1. Display to CRT - only if LCD lid is closed;
2. Display to LCD - only if no CRT

detected;

3. Display can scan CRT & LCD simultaneously if both are detected and activate.

- **Audio**

<b>Sound Controller</b>	Embedded in Intel ICH6-M
<b>Sound Codec chip</b>	Realtek ALC655
<b>Internal Speaker</b>	2 Speakers with housing (AMP: TI TPA0202)
<b>SoundBlaster</b>	SoundBlaster compatible (Not support DOS)
<b>Sound Volume</b>	Adjust by volume button, K/B hot-key & SW

- **Software & BIOS**

<b>Support OS</b>	Win XP Home and Professional edition
<b>USB Flash Boot</b>	Yes, USB floppy boot up DOS only
<b>BIOS</b>	Fast Boot Support --- Yes (Win XP)

- **Other**

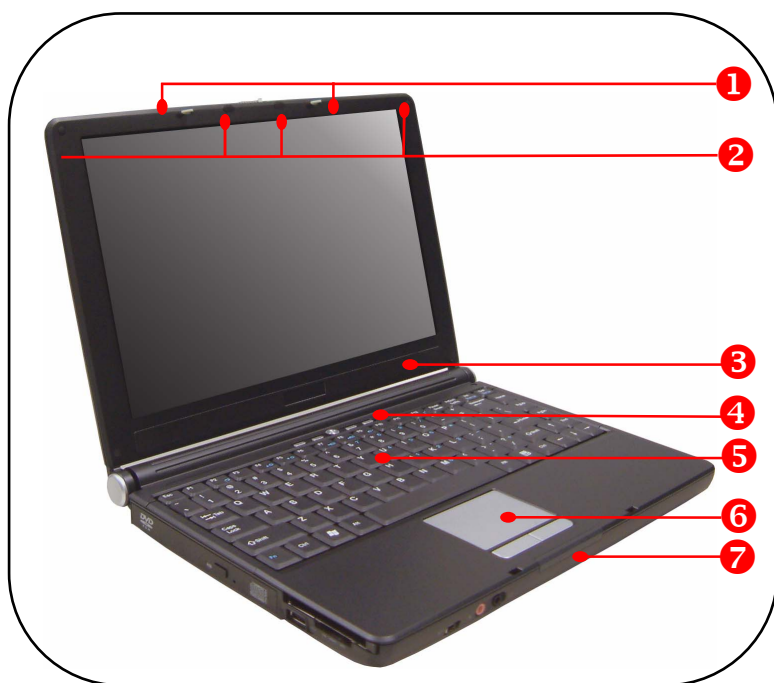
<b>Kensington Lock Hole</b>	x 1
<b>Compliance</b>	WHQL --- PC2001

## **CONFIGURATION**

This section provides you the description of basic aspects of your Notebook PC. It will help you to know more about the appearance of this computer before using it.

### **Top-open View**

Press the Cover Latch to open the top cover (LCD Panel). The figure of top-open view and description showing below will lead you to browse the main operating area of your PC.



### 1 **Cover Latch (Internal View)**

It is a bounce-back device to lock the cover with the deck when closing your Notebook PC.

### 2 **Rubber Pads**

Protect your Notebook PC from random closing.

### 3 **Stereo Speakers**

Make high quality sound blaster with stereo system and Hi-Fi function supported.

### 4 **Quick Launch Buttons and Power Button**



Power Button: To turn your Notebook PC power ON and OFF.



Quick Launch Buttons: Just one click on the quick launch buttons can fast the starting of



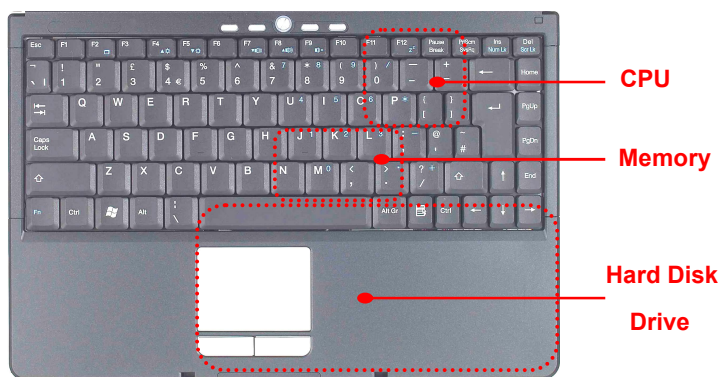
the programs in common use. It helps you to do works more efficient.



### 5 **Keyboard**

The built-in keyboard provides all the functions of a full-sized 86-key (US-defined) keyboard. (See **Basic Operation** for more information)

Besides, the location of CPU/Hard Disk Drive/Memory is under the keyboard panel, please refer to the following positions:



**Note:** In this Notebook PC, the CPU compartment and Memory compartment locate under the keyboard panel. If the CPU and Memory compartments of this Notebook PC need to be fixed or upgraded, they should be reached by lifting the keyboard panel.

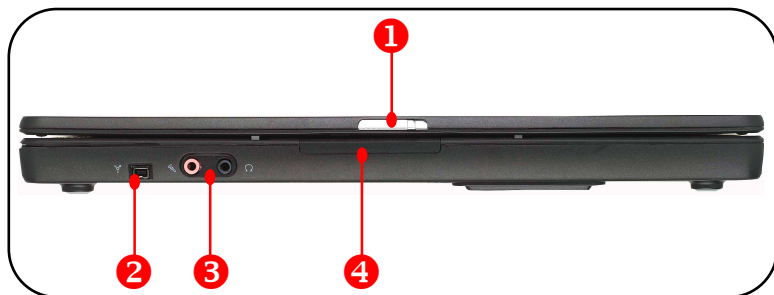
## ⑥ Touchpad

It is the pointing device of the computer. (See **Basic Operation** for more information)

## ⑦ Status LED

Please see Front View No. 4 (p.11) for detailed description.

## ■ **Front View**



### ❶ **Cover Latch (External View)**



Press Cover Latch rightward and lift the cover. The Cover Latch will bounce back when loosing it.

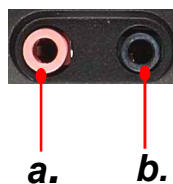
### ❷ **IEEE 1394**

The IEEE 1394 port is a high-speed bus that allows you to connect high-end digital devices such as the DV (digital video camera).

### ❸ **Audio Port Connectors**

Make high quality sound blaster with stereo system and Hi-Fi function supported.

- a.  Line In: Used for external CD player, Tape recorder or other audio devices.
- b.  Line Out: A connector for speakers or headphones.



4

## Status LED



**Num Lock:** Glowing Blue when the Num Lock function is activated.



**Caps Lock:** Glowing Blue when the Caps Lock function is activated.



**Scroll Lock:** Glowing Blue when the Scroll Lock function is activated.



**Hard Disk In-use:** Blinking Blue when computer is accessing the hard disk drive.



**AC Power On:** Glowing Blue when the AC Power is activated and blinking Blue when computer is getting into sleep mode.

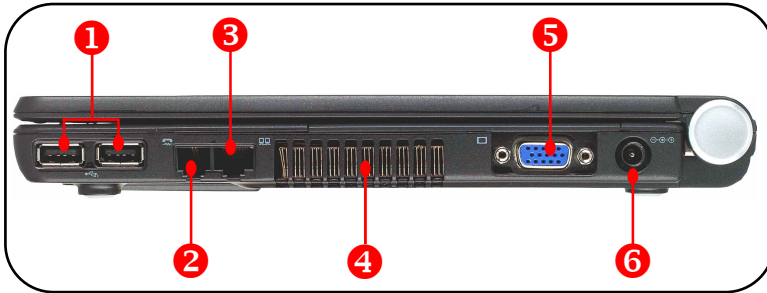


**Battery Status:** Blinking Green when the battery is being charged and blinking red is in LLB status (Low Low Battery status). (Note: The status would show when AC adapter connected).



**Wireless LAN:** Glowing Blue when wireless LAN function of the computer is enabled. Fast glowing in blue light means the status of being transferred and slowly glowing in blue light means the status of being AP connected

## ■ *Right-side View*



### **1 USB Port**

The USB 2.0 port allows you to connect USB-interface peripheral devices, such as the mouse, keyboard, modem, portable hard disk module, printer and more.

### **2 RJ-11 Connector**

The computer provides a built-in modem that allows you to connect an RJ-11 telephone line through this connector. With the 56K V.90 modem, you can make a dial-up connection.

### **3 RJ-45 Connector**

The 10/100 Ethernet connector is used to connect a LAN cable for network connection.

### **4 Ventilator**

The ventilator is designed to cool the system. DO NOT block the ventilator for air circulation.

**5 VGA Port**

The 15-pin-D-sub VGA port allows you to connect an external monitor or other standard VGA-compatible device (such as a projector) for a great view of the computer display.

**6 Power Connector**

To connect the AC adapter and supply power for the computer.

## ■ Left-side View



### 1 Optical Storage Device

A slim CD-ROM/DVD-ROM/CD-RW/DVD Combo/DVD Dual drive is available in the computer, depending on the model you purchased. The optical device allows you to use the CD/DVD disc for installing software, accessing data and playing music/movie on the computer.

### 2 USB Port

This USB port is reversely configured.

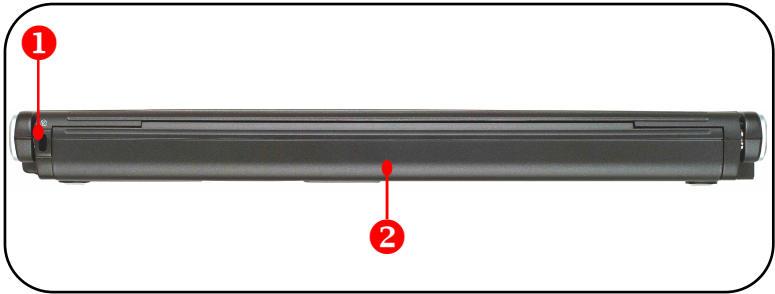
### 3 PC Card Slot

The computer provides a PC card slot to support one Type-II PC card for expansion functions, such as LAN/WLAN card, modem card, memory card, etc.

### 4 3 in 1 Card Reader

The built-in card reader supports MMC (multi-media card), SD (secure digital) and MS (memory stick) cards.

## ■ *Rear View*



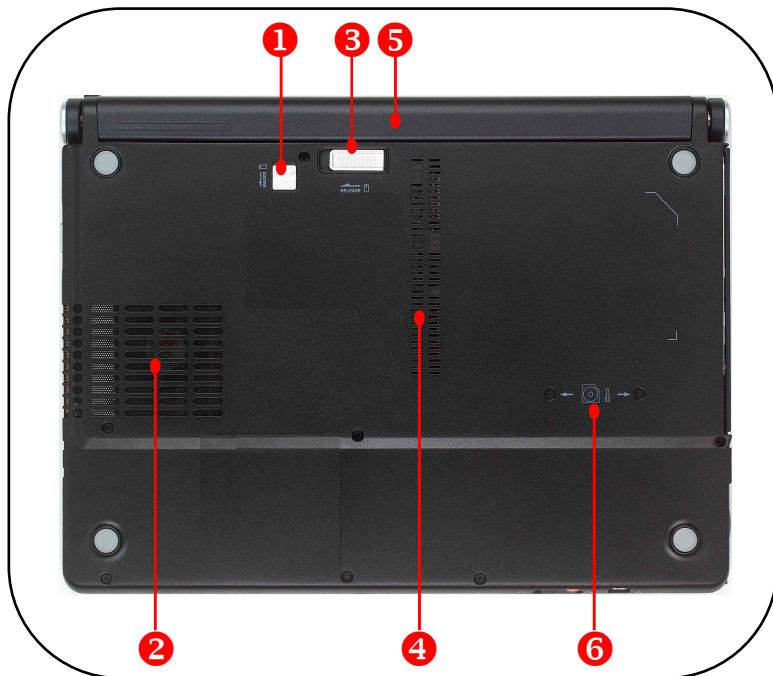
### **1 Kensington Lock**

This port is used to lock the computer to location for security

### **2 Battery Pack (Rear View)**

To supply power to your computer when the AC adapter is not connected (See **Preparation** for more information).

## ■ Bottom View



### 1 Battery Lock/Unlock Button

Battery can not be moved when the button is positioned on lock status. Once the button is pushed to unlock position, the battery is removable.

### 2 Ventilator

The ventilator is designed to cool the system. DO NOT block the ventilator for air circulation.

**3 Battery Release Button**

It is a bounce-back device as a preparation for releasing the battery pack. Press it with one hand and pull the battery pack carefully with the other.

**4 Ventilator**

The ventilator is designed to cool the system. DO NOT block the ventilator for air circulation.

**5 Battery Pack**

Supply power to your computer when the AC adapter is not connected. (See **Preparation** for more information)

**6 Screw Box for releasing Optical Device**

Use screwdriver to remove Optical Device from Notebook PC.

[illegible]

# Notebook

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***Preparation***



## ***THE BATTERY PACK***

Your Notebook PC is equipped with a high-capacity 4-cell/8-cell Li-ion Battery pack.

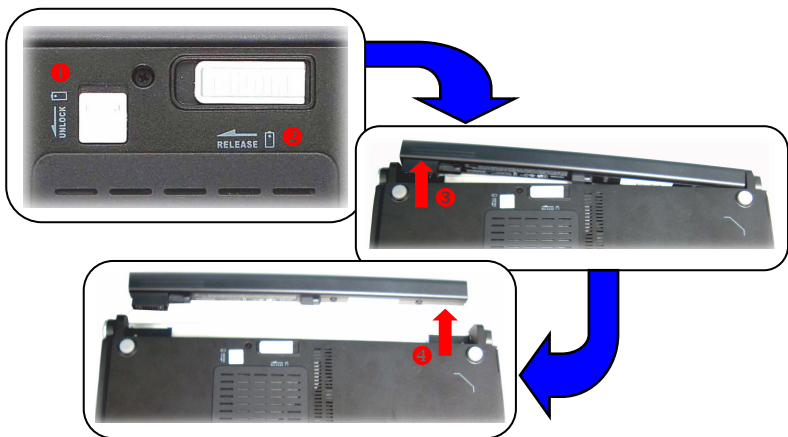
The rechargeable Li-ion battery pack is an internal power source of the computer. A fully charged battery pack can supply power to the computer up to 2.5 hours (Using 4-cell battery) or up to 5 hours (Using 8-cell battery). It depends on the way you use the computer.

## ■ **Releasing the Battery Pack**

It's a better way to have extra battery for enough power supply, so you don't have to worry about the lack of battery power. It's recommend to buy a battery pack from your local dealer.

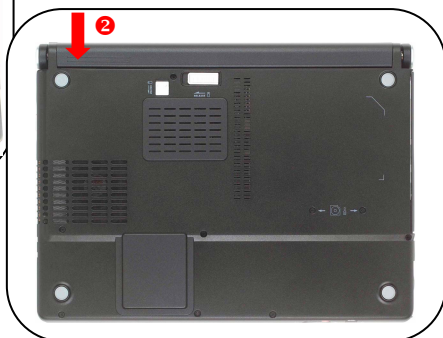
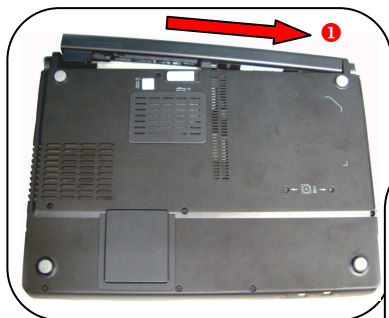
To remove the battery pack:

1. Make sure the computer is turned off.
2. Check the Lock/Unlock button (❶) is in unlocked status.
3. Locate the Battery Release Button on the bottom side.
4. Push the Release Button by the direction of arrow showing below the button (❷).
5. Slide the left side of the battery pack first out of the compartment (❸) and then pull the right side of the battery pack (❹).



## ■ **Replacing the Battery Pack**

1. Insert the right side of battery pack into the compartment (❶).
2. Slightly slide and press the battery pack into the right place.
3. After the right side of the battery pack fitting the right track, then slightly press the left side of battery pack into the battery chamber (❷).
4. Make sure the Lock/Unlock Button is in lock position.



1. *Do not try to disassemble THE BATTERY PACK.*
2. *Please follow your local laws and regulations to dump your used battery pack.*



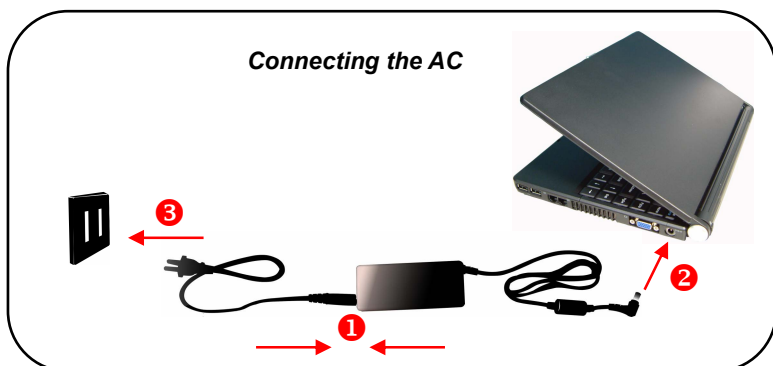
**Things to know...**

## **THE AC ADAPTER**

For the first time to use your Notebook PC, it is recommended to connect the AC adapter and use the AC power. When the AC adapter is connected, the battery is charged immediately. Please **NOTE** that the AC adapter included in the package is correct for your Notebook PC; using other adapter model may damage the computer or other devices on the computer.

### **Connecting the AC Power**






1. Unpack the package to find the AC adapter and power cord.
2. Attach the power cord to the connector of the AC adapter (❶).
3. Plug the DC end of the adapter to the computer (❷), and the male end of the power cord to the electrical outlet (❸).



## **Using the Battery Pack**

### **Battery Safety Tips**





Replacing or handling the battery incorrectly may present a risk of fire or explosion, which could cause serious injury.

-  Only replace the main battery pack with the same or equivalent type of battery.
-  Do not disassemble, short-circuit or incinerate batteries or expose them to temperatures above +60° C (+140° F).
-  Do not temper with batteries. Keep them away from children.
-  Do not use rusty or damaged batteries.
-  Dispose of batteries according to local regulations. Check with your local solid waste officials for details about recycling options or for proper disposal in your area.

### **Conserving Battery Power**

Efficient battery power is critical to maintain a normal operation of the system. If the battery power is not managed well, your saved data and customized settings may be lost.

Follow these tips to help optimize battery life and avoid a sudden power loss.

-  Suspend system operation if the system will be idle for a while or shorten the Suspend Timer's time period.
-  Shut off the system if you won't be using it for a period of time.
-  Disable unneeded settings or remove idle peripherals to conserve power.
-  Connect an AC adapter to the system whenever possible.